



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

NOV 3 1999

400 Seventh Street, S.W.  
Washington, D.C. 20590

DOT-E 6908  
(SEVENTH REVISION)

EXPIRATION DATE: October 31, 2001

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: U. S. Department of Defense  
Falls Church, VA

(See Appendix A to this document for a list of additional grantees)

2. PURPOSE AND LIMITATION:

- a. This exemption authorizes the transportation in commerce of certain materials described in paragraph 6 below, in non-DOT specification cylinders similar to DOT Specification 39 cylinders. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
- b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.

3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.302(a)(1) and § 175.3 in that non-DOT specification cylinders are authorized.
5. BASIS: This exemption is based on the application of U.S. Department of Defense dated October 6, 1999, submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Argon, compressed	2.2	UN1006	N/A
Air, compressed	2.2	UN1002	N/A
Compressed gas, n.o.s.	2.2	UN1956	N/A
Helium, compressed	2.2	UN1046	N/A
Nitrogen, compressed	2.2	UN1066	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-refillable, non-DOT specification spherical pressure vessel designed and constructed in accordance with Garrett Pneumatic Systems Division Specification No. GPS 6060-2 Revision A, and drawings 3165171 and 3236804, other drawings, technical specifications and calculations on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA), and DOT Specification 39 (§ 178.65) except as follows:

§ 178.65(a) *Type, size, service pressure and test pressure.*

\* \* \*

(1) *Size limitation.* Maximum water capacity may not exceed: (i) 95 cubic inches for a service pressure of 10,000 psig, (ii) 217 cubic inches for a service pressure of 7,800 psig, (iii) 270 cubic inches for a service pressure of 7,000 psig.

(2) *Test pressure.* Test pressure must be at least 1.67 but not to exceed 1.7 times the marked service pressure.

(3) \* \* \*

§ 178.65(b) *Material.* The cylinder must be constructed of steel conforming to the following requirements:

(1) Steel.

(i) The check analysis must conform to 4130 steel shown in § 178.44(b).

(ii) through (iv) \* \* \*

(2) Does not apply.

(3) and (4) \* \* \*

§ 178.65(d) *Wall thickness.*

No change except the maximum wall stress at test pressure is limited to 110,000 psi.

§ 178.65(f) *Pressure tests.*

(1) \* \* \*

(2) \* \* \*

(i) A failure occurs at a gauge pressure less than 2.5 times the service pressure.

(ii) thru (iv) \* \* \*

(3) A lot is defined as the quantity of cylinders not exceeding 1000 successively produced per production shift (not exceeding 10 hours) having identical size, design, construction, material, heat treatment, finish and quality.

§ 178.65(g) *Flattening test.*

\* \* \*

(1) and (2) \* \* \*

(3) The flattening must be between 60 degrees included-angle, wedge shaped knife edges, rounded to a 0.5 inch radius; provided that flattening between flat plates is authorized for spheres or test specimens.

(4) Spheres or test specimens must not crack when flattened so that their outer surfaces are not more than ten times wall thickness apart.

(5) \* \* \*

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§ 178.65(i) *Markings.*

Applies except spheres must be marked "DOT-E 6908" instead of "DOT-39". Spheres marked "DOT-SP 6908" prior to February 4, 1977 may be shipped under terms of this exemption.

b. OPERATIONAL CONTROLS - Spheres must be shipped in strong outside packagings in accordance with § 173.301(k). The package must be capable of withstanding a twelve foot drop onto solid concrete without damage to the pressure vessel and without leakage.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, cargo aircraft only.

10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq.

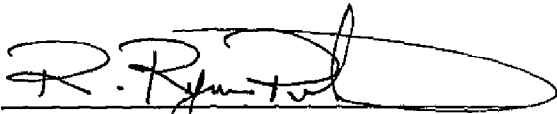
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when this exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



*for* Alan I. Roberts  
Associate Administrator for  
Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

Dist: FAA, FHWA, FRA, USCG  
PO: KFW

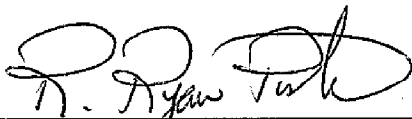
FEB 16 2000

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The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with § 107.107 or § 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Honeywell Inc. Tempe, AZ	Jan 5, 2000	Feb 15, 2000	Oct 31, 2001
Honeywell International Inc Morristown, NJ	Feb 3, 2000	FEB 16 2000	Oct 31, 2001



for Robert A. McGuire  
Acting Associate Administrator for  
Hazardous Materials Safety